

## **STIC Biotechnology Systems Branch**

### **RAW SEQUENCE LISTING** **ERROR REPORT**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/665,671  
Source: FW/6  
Date Processed by STIC: 12/3/05

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER VERSION 4.2.2 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebs/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):  
U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/24/05

## Raw Sequence Listing Error Summary

### ERROR DETECTED

### SUGGESTED CORRECTION

SERIAL NUMBER:

10/665,671

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1        Wrapped Nucleics  
    Wrapped Aminos     The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor **after** creating it. Please adjust your right margin to .3; this will prevent "wrapping."
  
- 2        Invalid Line Length     The rules require that a line **not exceed** 72 characters in length. This includes white spaces.
  
- 3        Misaligned Amino  
    Numbering     The numbering under each 5<sup>th</sup> amino acid is misaligned. Do **not** use tab codes between numbers; use **space characters**, instead.
  
- 4        Non-ASCII     The submitted file was **not** saved in ASCII(DOS) text, as **required** by the Sequence Rules. **Please ensure your subsequent submission is saved in ASCII text.**
  
- 5        Variable Length     Sequence(s)        contain n's or Xaa's representing more than one residue. **Per Sequence Rules, each n or Xaa can only represent a single residue.** Please present the **maximum** number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
  
- 6        PatentIn 2.0  
    "bug"     A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s)       . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. **This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.**
  
- 7        Skipped Sequences  
    (OLD RULES)     Sequence(s)        missing. If intentional, please insert the following lines for **each** skipped sequence:  
                               (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
                               (i)       SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)  
                               (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
                               This sequence is intentionally skipped  
  
                               Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to **include** the skipped sequences.
  
- 8        Skipped Sequences  
    (NEW RULES)     Sequence(s)        missing. If **intentional**, please insert the following lines for **each** skipped sequence.  
                               <210> sequence id number  
                               <400> sequence id number  
                               000
  
- 9        Use of n's or Xaa's  
    (NEW RULES)     Use of n's and/or Xaa's have been detected in the Sequence Listing.  
                               Per 1.823 of Sequence Rules, use of <220>-<223> is **MANDATORY** if n's or Xaa's are present.  
                               In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
  
- 10        Invalid <213>  
    Response     Per 1.823 of Sequence Rules, the only **valid** <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is **required** when <213> response is Unknown or is Artificial Sequence
  
- 11        Use of <220>     Sequence(s)        missing the <220> "Feature" and associated numeric identifiers and responses.  
                               Use of <220> to <223> is **MANDATORY** if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.  
                               (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
  
- 12        PatentIn 2.0  
    "bug"     Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
  
- 13        Misuse of n/Xaa     "n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid



IFW16

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/665,671

DATE: 12/03/2005

TIME: 09:47:08

Input Set : A:\4987 US.txt

Output Set: N:\CRF4\12032005\J665671.raw

3 <110> APPLICANT: ANDERSEN, Mark R.  
 4 HUNKAPILLER, Michael W.  
 5 LIVAK, Kenneth J.  
 6 SPIER, Eugene G.  
 7 WENZ, Michael H.  
 9 <120> TITLE OF INVENTION: Methods and Compositions for Detecting Targets  
 11 <130> FILE REFERENCE: 4987 US  
 13 <140> CURRENT APPLICATION NUMBER: US 10/665,671  
 14 <141> CURRENT FILING DATE: 2003-09-19  
 16 <150> PRIOR APPLICATION NUMBER: US 60/412,225  
 17 <151> PRIOR FILING DATE: 2002-09-19  
 19 <160> NUMBER OF SEQ ID NOS: 25  
 21 <170> SOFTWARE: PatentIn version 3.3  
 23 <210> SEQ ID NO: 1  
 24 <211> LENGTH: 49  
 25 <212> TYPE: DNA  
 26 <213> ORGANISM: Human  
 28 <400> SEQUENCE: 1  
 29 ttgcctgctc gacttagatc aaaggagacg cggctgcttt cagcctcat 49  
 32 <210> SEQ ID NO: 2  
 33 <211> LENGTH: 49  
 34 <212> TYPE: DNA  
 35 <213> ORGANISM: Human  
 37 <400> SEQUENCE: 2  
 38 ttgcctgctc gacttagagg gtcacagtag gtgggtgcttt cagcctcac 49  
 41 <210> SEQ ID NO: 3  
 42 <211> LENGTH: 33  
 43 <212> TYPE: DNA  
 44 <213> ORGANISM: Human  
 46 <400> SEQUENCE: 3  
 47 ggggatagtg gctgcatcac tggatagcga cgt 33  
 50 <210> SEQ ID NO: 4  
 51 <211> LENGTH: 49  
 52 <212> TYPE: DNA  
 53 <213> ORGANISM: Human  
 55 <400> SEQUENCE: 4  
 56 ttgcctgctc gacttagatc aaaggagacg cggcagtggt tttccaacg 49  
 59 <210> SEQ ID NO: 5  
 60 <211> LENGTH: 51  
 61 <212> TYPE: DNA  
 62 <213> ORGANISM: Human  
 64 <400> SEQUENCE: 5  
 65 ttgcctgctc gacttagagg gtcacagtag gtggacagtg gttttccaac a 51

Does Not Comply  
corrected Diskette Needed

P.4

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/665,671

DATE: 12/03/2005

TIME: 09:47:08

Input Set : A:\4987 US.txt

Output Set: N:\CRF4\12032005\J665671.raw

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68 <210> SEQ ID NO: 6
69 <211> LENGTH: 32
70 <212> TYPE: DNA
71 <213> ORGANISM: Human
73 <400> SEQUENCE: 6
74 tgaacacacc gggatcact ggatagcgac gt 32
77 <210> SEQ ID NO: 7
78 <211> LENGTH: 18
79 <212> TYPE: DNA
80 <213> ORGANISM: Human
82 <400> SEQUENCE: 7
83 ttgcctgctc gacttaga 18
86 <210> SEQ ID NO: 8
87 <211> LENGTH: 18
88 <212> TYPE: DNA
89 <213> ORGANISM: Human
91 <400> SEQUENCE: 8
92 acgtcgctat ccagtgat 18
95 <210> SEQ ID NO: 9
96 <211> LENGTH: 15
97 <212> TYPE: DNA
98 <213> ORGANISM: Human
100 <400> SEQUENCE: 9
101 ccgcgtctcc tttga 15
104 <210> SEQ ID NO: 10
105 <211> LENGTH: 16
106 <212> TYPE: DNA
107 <213> ORGANISM: Human
109 <400> SEQUENCE: 10
110 ccacctactg tgaccc 16
113 <210> SEQ ID NO: 11
114 <211> LENGTH: 70
115 <212> TYPE: DNA
116 <213> ORGANISM: Human
118 <400> SEQUENCE: 11
119 ttgcctgctc gacttagatc cgcgtctcct ttgatttgta ccactctttt tcggtcaaaa 60
121 acgagatcaa 70
124 <210> SEQ ID NO: 12
125 <211> LENGTH: 71
126 <212> TYPE: DNA
127 <213> ORGANISM: Human
129 <400> SEQUENCE: 12
130 ttgcctgctc gacttagatc cacctactgt gaccctttgt accactcttt ttcggtcaaa 60
132 aacgagatca g 71
135 <210> SEQ ID NO: 13
136 <211> LENGTH: 37
137 <212> TYPE: DNA
138 <213> ORGANISM: Human
140 <400> SEQUENCE: 13

```

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/665,671

DATE: 12/03/2005

TIME: 09:47:08

Input Set : A:\4987 US.txt

Output Set: N:\CRF4\12032005\J665671.raw

141 taccagctta acacatagca tcactggata gcgacgt	37
144 <210> SEQ ID NO: 14	
145 <211> LENGTH: 73	
146 <212> TYPE: DNA	
147 <213> ORGANISM: Human	
149 <400> SEQUENCE: 14	
150 ttgcctgctc gacttagatc cgcgtctcct ttgatttgta ccactctttt tccaataact	60
152 aaaggtacaa cat	73
155 <210> SEQ ID NO: 15	
156 <211> LENGTH: 73	
157 <212> TYPE: DNA	
158 <213> ORGANISM: Human	
160 <400> SEQUENCE: 15	
161 ttgcctgctc gacttagatc cacctactgt gaccctttgt accactcttt ttcaataact	60
163 aaaggtacaa cac	73
166 <210> SEQ ID NO: 16	
167 <211> LENGTH: 37	
168 <212> TYPE: DNA	
169 <213> ORGANISM: Human	
171 <400> SEQUENCE: 16	
172 ggcataataa tctccaaaga tcactggata gcgacgt	37
175 <210> SEQ ID NO: 17	
176 <211> LENGTH: 68	
177 <212> TYPE: DNA	
178 <213> ORGANISM: Human	
180 <400> SEQUENCE: 17	
181 ttgcctgctc gacttagatc cgcgtctcct ttgatttgta ccactctttt tccagtgggt	60
183 ttccaacg	68
186 <210> SEQ ID NO: 18	
187 <211> LENGTH: 70	
188 <212> TYPE: DNA	
189 <213> ORGANISM: Human	
191 <400> SEQUENCE: 18	
192 ttgcctgctc gacttagatc cacctactgt gaccctttgt accactcttt ttcacagtgg	60
194 ttttccaaca	70
197 <210> SEQ ID NO: 19	
198 <211> LENGTH: 32	
199 <212> TYPE: DNA	
200 <213> ORGANISM: Human	
202 <400> SEQUENCE: 19	
203 tgaacacacc gggtatcact ggatagcgac gt	32
206 <210> SEQ ID NO: 20	
207 <211> LENGTH: 18	
208 <212> TYPE: DNA	
209 <213> ORGANISM: Human	
211 <400> SEQUENCE: 20	
212 ttgcctgctc gacttaga	18
215 <210> SEQ ID NO: 21	
216 <211> LENGTH: 18	

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/665,671

DATE: 12/03/2005

TIME: 09:47:08

Input Set : A:\4987 US.txt

Output Set: N:\CRF4\12032005\J665671.raw

217 <212> TYPE: DNA  
218 <213> ORGANISM: Human  
220 <400> SEQUENCE: 21  
221 acgtcgctat ccagtgat 18  
224 <210> SEQ ID NO: 22  
225 <211> LENGTH: 15  
226 <212> TYPE: DNA  
227 <213> ORGANISM: Human  
229 <400> SEQUENCE: 22  
230 ccgcgtctcc tttga 15  
233 <210> SEQ ID NO: 23  
234 <211> LENGTH: 16  
235 <212> TYPE: DNA  
236 <213> ORGANISM: Human  
238 <400> SEQUENCE: 23  
239 ccacctactg tgaccc 16  
242 <210> SEQ ID NO: 24  
243 <211> LENGTH: 15  
244 <212> TYPE: DNA  
245 <213> ORGANISM: Artificial  
247 <220> FEATURE:  
248 <223> OTHER INFORMATION: Artificial DNA  
250 <400> SEQUENCE: 24  
251 catgccaatg acgga 15  
254 <210> SEQ ID NO: 25  
255 <211> LENGTH: 15  
256 <212> TYPE: DNA  
257 <213> ORGANISM: Artificial  
259 <220> FEATURE:  
260 <223> OTHER INFORMATION: Artificial DNA  
262 <400> SEQUENCE: 25  
263 catgcgaatg acggc 15

*insufficient - what is  
the source of genetic material?  
(see item 11 on  
Enon  
Summary  
Sheet)*

RAW SEQUENCE LISTING ERROR SUMMARY      DATE: 12/03/2005  
PATENT APPLICATION:    US/10/665,671      TIME: 09:47:09

Input Set : A:\4987 US.txt  
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Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,  
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:24,25

**VERIFICATION SUMMARY**

**PATENT APPLICATION: US/10/665,671**

**DATE: 12/03/2005**

**TIME: 09:47:09**

**Input Set : A:\4987 US.txt**

**Output Set: N:\CRF4\12032005\J665671.raw**